Yuma Almanac vs. TLE format comparison

Yuma Almanac

- Angle unit: [**rad**]
- ToA given in **[s] from the start of week (GPS week epoch)**
- **Unscaled** Orbit Eccentricity
- **Non-null** Rate of Right Ascension
- Specifies the **Squared root of orbit major semi-axis [m]**
- Specifies the Ascending Node **Longitude at the GPS week epoch**

TLE

- Angle unit: [**degrees**]
- ToA given in **[days] from the start of current year**
- Orbit Eccentricity scaled by 10^7
- Rate of Right Ascension = **0**
- Specifies the **mean motion in [revolutions/day]**
- Specifies the Ascending Node **Right Ascension at the ToA**